

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-025635

(43)Date of publication of application : 25.01.2002

(51)Int.Cl. H01M 14/00

H01L 31/04

// C09B 57/10

(21)Application number : 2000-203436 (71)Applicant : JAPAN SCIENCE & TECHNOLOGY CORP

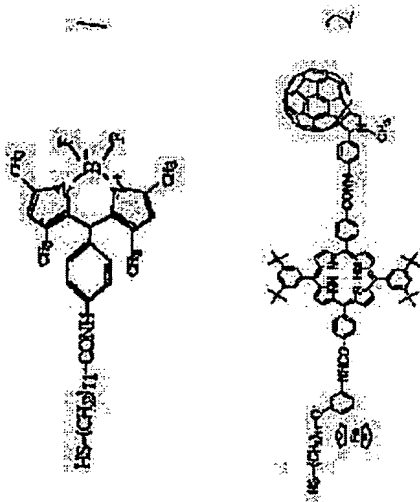
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(54) LIGHT ENERGY-ELECTRIC ENERGY CONVERSION SYSTEM WITH ANTENNA COMPOUND AND CHARGE SEPARATION TYPE COMPOUND ACCUMULATED ON ELECTRODE AS MIXED SELF-ORGANIZED MONOMOLECULAR FILM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an artificial photosynthetic aggregate of potential utility.

SOLUTION: This light energy-electric energy conversion system is characterized in that a self-organized monomolecular film is formed on a surface of a metallic or semiconductor film formed on a surface of a substrate by mixing an energy-donor compound having a boron-dipyrin portion by covalent bonding or coordinate bonding, such as the compound of the formula 1, and an energy- acceptor compound having a ternary system, such as the compound of the formula 2, so that energy can move between the two compound.



### LEGAL STATUS

[Date of request for examination]

06.01.2005

[Date of sending the examiner's decision of

rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]